PATENT APPLICATIONS BEING PREPARED

August 1977

▽ = Keritsis Case

○ = Lendvay Case

RECEIVED
WLK&T
SEP 19 1977
FILE

Watson, Leavenworth, Kelton & Taggart

○ PM 636 - A. Lendvay

FILLING POWER INCREASE OF SMOKING MATERIAL

Filling power of leaf is increased by applying aqueous aluminum sulfate or closely related salt without detriment to smoke acceptability.

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▽ PM 641 - G. Keritsis

NON-TOBACCO SMOKING MATERIALS

A variety of formulations for non-tobacco smoking materials was disclosed. They are characterized in giving acceptable smoke flavor with low "tar" delivery.

Inventor has narrowed definition somewhat; preparation of application(s) going forward.

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▽ PM 653 - G. Keritsis

EXTRUSION OF SMOKING MATERIALS

Any of a wide variety of extrusion or other forming techniques presently in use with resins can be used to form sheet or fibrous products from synthetic smoking materials based on resins.

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Source: https://www.industrydocuments.ucsf.edu/docs/mmwj0000

PM 662 - R. Seligman
G. Keritsis

INCORPORATION OF HEAT-TREATED CARBOHYDRATE IN RCB BLEND MATRIX

Heat-treated carbohydrate is incorporated into an RCB matrix prior to casting to produce a sheet with a lowered tar and nicotine smoke.

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PM 682 - J. Knight

EXPANSION OF TOBACCO WITH CARBON DIOXIDE HYDRATE

Formation of carbon dioxide hydrate as the agent within tobacco for subsequent release of gas for puffing permits operation at lower pressures than with liquid CO_2.

Case indicated as having some priority. Draft application, awaiting inventor's approval.

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PM 683 - S. Debrand

PROCESS FOR INCREASING THE FILLING CAPACITY OF TOBACCO

Filling capacity of tobacco is increased about 20% by treating at 85°/80% r.h. and reordering.

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PM 689 - G. Keritsis

CROSS-LINKED SMOKING MATERIAL

To strengthen and reduce breakage of smoking materials, especially foamed or expanded, treat with polyfunctional hydroxy or amino compounds and polycarboxylic acids, etc.

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1005116020

Source: https://www.industrydocuments.ucsf.edu/docs/mmwj0000

PM 690 - A. Lendvay
H. Wakeham

CARBONIZATION OF TOBACCO PRODUCTS

Tobacco stem/stalk is thermalized, added to reconstituted tobacco to reduce TPM delivery.

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PM 695 - A. Lendvay

UPGRADING TOBACCO STEM MATERIALS

Use of thermally treated stem material degraded to a 10% weight loss (at temperatures between 150°C and 350°C), removing harshness or odor by ventilation, steam, or water extraction (no catalyst used)--then incorporated in filler. Process upgrades stem material.

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PM 697 - A. Lendvay
B. Spann

CONTINUOUS PROCESS FOR TOBACCO EXPANSION

Tobacco on conveyor is sprayed with ammonium carbamate solution or with ammonium hydroxide solution followed by Dry Ice, then passed through expansion chamber.

Further information has been sent to attorneys.

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PM 698 - G. Keritsis

A SMOKABLE PRODUCT BASED ON HEAT-TREATED CARBOHYDRATES AND METHOD OF MAKING IT

Cellulose or its derivatives or plant material is thermally degraded to a weight loss of 10 - 90% and cast from a slurry with additives or added to paper.

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Source: https://www.industrydocuments.ucsf.edu/docs/mmwj0000

PM 699 - H. Grubbs
W. Johnson, Jr.
T. Van Auken

MIXED PACK OF MENTHOL AND REGULAR CIGARETTES

Menthol retention insured by chemical binding to polymer for release on smoking.

Draft application has been received and returned with corrections. Filing simultaneously with PM 709 desirable.

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PM 706 - W. Claflin
L. Filosa

FILTER SYSTEM WITH CONTROLLED DRAW AND DILUTION CHARACTERISTICS

A ventilated cigarette is compensated for low RTD by a high RTD, low efficiency filter.

Search completed. Draft application has been prepared.

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PM 709 - W. Geiszler, Jr.
W. Hopkins

MIXED PACK OF CIGARETTES CONTAINING VARIOUS VOLATILE FLAVORS IN ENCAPSULATED FORM

Menthol or other flavor retention insured by physical encapsulation. See PM 699.

Draft application received.

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1005116022

PM 711 - W. Geiszler, Jr.
W. Hopkins

DIAMMONIUM PHOSPHATE ADDED TO TOBACCO FILLER TO RETARD CIGARETTE BURN RATE

Priority case. See also PM 746.

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Source: https://www.industrydocuments.ucsf.edu/docs/mmwj0000

PM 712 - F. Daylor
D. Keel
H. Spielberg

FLAVOR IMPROVEMENT OF RECONSTITUTED TOBACCO PRODUCTS

Spray DAP on RL sheet or apply in recombine liquor.

Priority case. See also PM 746.

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PM 713 - G. Keritsis

TOBACCO REPLACEMENT MATERIAL

Chitin or chitosan as base for substitute smoking material.

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PM 717 - W. Mutter
F. Watson III

DIGITAL CIRCUMFERENCE GAUGE

Standard rod circumference gauge supplied with air at 20 psi, transducer measurement of pressure drop fed to computer.

Application has been filed in the Patent Office on August 4.

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PM 722 - J. Washington

SYSTEM FOR PRODUCING AND FILLING CAVITIES IN A FILTER PLUG FOR CIGARETTES

Filter tow undergoes periodic stretching to form thin spots or pockets to receive granular material from pockets in a rotating wheel. The stretching is accomplished by passing the tow over two counter-rotating cams. Prototype stretcher operating.

Draft application has been received and returned with comments.

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Source: https://www.industrydocuments.ucsf.edu/docs/mmwj0000

PM 727 - F. Utsch
R. de la Burde
P. Aument

TOBACCO EXPANSION WITH GASEOUS CO_2

Priority case. Associated with earlier cases and with PM 728. Revised application received, see below.

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PM 728 - F. Utsch
R. de la Burde
P. Aument

TOBACCO EXPANSION WITH GASEOUS CO_2

Impregnation with gas and pressure release under conditions such that conversion to liquid or solid before heating step avoided.

Priority case. Associated with earlier cases and with PM 727. Revised application combining 727-728 received, returned with extensive additions, corrections, further examples on August 30.

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PM 742 - G. Keritsis

TOBACCO-FLAVOR PRECURSORS

Chitin, chitosan, glucosamine, and the like are incorporated in smoking product or wrapper to generate tobacco-like flavors. Compare PM 713.

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1005116024

PM 745 - L. Sykes
R. Snow

EXPANSION OF TOBACCO BY TREATMENT WITH LIQUID CARBON DIOXIDE

Tobacco at high OV is impregnated at relatively low pressure (minimum 250 psi) with liquid CO_2; the latter is drained thoroughly, and the pressure is reduced to form solid CO_2 in the tobacco. Expansion by heating to very low exit OV gives superior expansion.

Filed in Patent Office this month.

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Source: https://www.industrydocuments.ucsf.edu/docs/mmwj0000

PM 746 - W. Geiszler, Jr.
W. Hopkins

DAP ADDED TO TOBACCO FILLER CONTAINING EXPANDED TOBACCO TO RAISE TPM/UNIT WEIGHT

See PM 711.

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PM 750 - L. Sykes
H. Merritt

IMPROVEMENT OF FILLING POWER OF EXPANDED TOBACCO BY HEAT TREATMENT

Post-expansion treatment increases or stabilizes filling power. See PM 745.

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PM 763 - R. Thatcher

ZIP TAPE SEPARATOR

Separates pull tapes from filler reclaimed by carton ripper/reclaim process.

Search completed.

1005116025

Source: https://www.industrydocuments.ucsf.edu/docs/mmwj0000

Prepared by Patent Group

PM 720 - W. Geiszler, Jr.

TIPPING PAPER WITH PATTERNED PERFORATIONS

Filter ventilation is achieved with porous plug wrap or equivalent, covered by tipping paper with relatively large holes punched out.

Prior art considerations suggest filing a design application; undecided. Awaiting staining pattern tests.

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PM 732 - A. Gergely
J. Namesny

ADJUSTABLE EXTRUSION DIE FACE PLATE

Adjusting bolts operate along x and y axes for quick setting via precalibration.

Search at Patent Office complete. Application nearing completion.

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PM 739 - R. Bass
R. Jenkins, Jr.
R. Comes

METHOD OF REMOVING SAND, OTHER PARTICLES, AND FOREIGN MATTER FROM TOBACCO

Method of water spraying green tobacco leaf with controlled pressure and pattern, optionally with surfactant. New information awaited.

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PM 752 - P. Gauvin

CIGARETTE DESIGNS

Decorative pattern applied to rod. Possible design applications.

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Source: https://www.industrydocuments.ucsf.edu/docs/mmwj0000

PM 753 - N. Rainer
C. Bailey

CIGARETTE FILTER MATERIAL COMPRISING COMPOUNDS OF IRON IN HIGH OXIDATION STATES

Selective removal of gas phase components by alkali, alkaline earth ferrates, other higher oxidation forms of iron.

Application filed in Patent Office on August 1.

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PM 761 - T. Laszlo

MICROWAVE MOISTURE METER

A microwave beam is passed through the moving cigarette rod and the attenuation is a measure of moisture content.

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PM 771 - R. Markwood

IMPREGNATOR HEAD AND FILTER

Unused space in domed head of liquid CO_2 impregnator blocked by lightweight structure.

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PM 780 - E. Secor

CIGARETTE PACKAGING

Filed in Patent Office on August 23.

1005116027

Source: https://www.industrydocuments.ucsf.edu/docs/mmwj0000